

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) An overwrite method of an optical disc, comprising the steps of:

confirming whether a recording mode applied to the optical disc is a sequential recording mode by reading recording mode information recorded in a temporary management area of the optical disc, in which data is recorded sequentially onto sequential recording ranges allocated to a data area of the optical disc, wherein each of the sequential recording ranges is one of an open sequential recording range having a next writable area or a closed sequential recording range having no writable area;

performing an overwrite for an overwrite-requested data onto a replacement recording area,

wherein if the overwrite is requested in an open sequential recording range, a next writable area within the open sequential recording range is identified as the replacement recording area.

2. (Cancelled)

3. (Withdrawn) The overwrite method of claim 1, wherein if the overwrite in a closed SRR area within the optical disc is requested, the replacement recording is executed within a spare area.

4. (Withdrawn) The overwrite method of claim 3, wherein if the overwrite in the closed SRR area within the optical disc is requested, the spare area for the replacement recording is an outer spare area (OSA).
5. (Withdrawn) The overwrite method of claim 4, wherein the outer spare area (OSA) is allocated on disc initialization.
6. (Withdrawn) The overwrite method of claim 5, wherein a size of the outer spare area (OSA) allocated on the disc initialization is $N*256$ clusters where $N \leq 768$.
7. (Withdrawn) The overwrite method of claim 3, wherein if the closed SRR area is located on an inner disc circumference, the spare area for the replacement recording is an inner spare area (ISA).
8. (Withdrawn) The overwrite method of claim 7, wherein the closed SRR area located on the inner disc circumference is an area for recording file system information.
9. (Currently Amended) The overwrite method of claim 1, further comprising; wherein recording, after performing an overwrite, location information of the replacement recorded area ~~is recorded as~~ management information.
10. (Withdrawn) An overwrite method of an optical disc, comprising the step of performing a replacement recording on a spare area within the optical disc with overwrite-requested data in a specific recording-completed area within the optical disc

in a random recording mode (RRM) wherein a size of the spare area for allocation is determined on disc initialization for the replacement recording.

11. (Withdrawn) The overwrite method of claim 10, wherein the spare area comprises an inner spare area (ISA) on an inner circumference of the optical disc and an outer spare area (OSA) on an other circumference of the optical disc.

12. (Withdrawn) The overwrite method of claim 11, wherein a size of the outer spare area (OSA) allocated on the disc initialization is $N*256$ clusters where $N \leq 768$.

13. (Withdrawn) The overwrite method of claim 11, wherein a size of the inner spare area (ISA) allocated on the disc initialization is fixed.

14. (Withdrawn) In performing a recording on a write-once optical disc in a recording mode selected from the group consisting of a sequential recording mode (SRM) and a random recording mode (RRM), a write-once optical disc overwriting method comprising the steps of:

determining a replacement recording area for an overwrite according to the recording mode if the overwrite on a user data area within the optical disc is requested; and

executing a logical overwrite.

15. (Withdrawn) The overwrite method of claim 14, wherein if the recording mode is the sequential recording mode (SRM), the replacement recording is performed on NWA within the user data area or a spare area.

16. (Withdrawn) The overwrite method of claim 14, wherein if the recording mode is the random recording mode (RRM), the replacement recording is performed on a spare area.

17. (Withdrawn) A recording/reproducing apparatus for a write-once optical disc, comprising:

a control unit delivering a recording command requesting a recording execution on a specific area; and

a recording/reproducing unit deciding whether the specific area is a recording-completed area or a non-recorded area, the recording/reproducing unit performing a replacement recording on another area within a data area if the specific area is the recording-completed area, the recording/reproducing unit executing the replacement recording by differentiating the replacement-recorded area according to a disc recording mode.

18. (Currently Amended) An apparatus for overwriting data on an optical disc, comprising:

a pickup unit configured to write data on the optical disc; and

a controller, operatively coupled to the pick up unit, configured to control confirming whether a recording mode applied to the optical disc is a sequential recording mode by reading recording mode information recoded in a temporary management area of the optical disc, in which data is recorded sequentially onto sequential recording ranges allocated to a data area of the optical disc, wherein each of the sequential recording ranges is one of an open sequential recording range having

a next writable area and a closed sequential recording range having no writable area; and

wherein the controller is also configured to control the pickup unit to perform a replacement recording for an overwrite-requested data onto a replacement recording area, wherein if the overwrite is requested in an open sequential recording range, the controller identifies a next writable area within the open sequential recording range as the replacement recording area.

19. (Currently Amended) The apparatus of claim 18, wherein said controller configured to control the pickup unit to write location information of the overwrite-requested area and the replacement-recorded area ~~is recorded~~ as management information, after execution of the overwrite.

20. (Currently Amended) The method of claim 9, wherein the recording step records the location information ~~is recorded~~ in a temporary management area.

21. (Currently Amended) The apparatus of claim 19, wherein the controller configured to the pickup unit to write the location information ~~is recorded~~ in a temporary management area.

22. (Currently Amended) An optical disc, comprising:

a data area configured to allocate one or more sequential recording ranges in a sequential recording mode in which data is recorded sequentially onto the sequential recording range, wherein each of the sequential recording ranges is one of an open sequential recording range having a next writable area and a closed sequential

recording range having no writable area, and wherein if an overwrite is requested in an open sequential recording range, a next writable area within the open sequential recording range is identified as a replacement recording area; and,

a temporary management area configured to store location information of an overwrite-requested area and a replacement-recorded area, wherein the temporary management area further stores recording mode information including the sequential recording mode.

End Of Claims